

## In the Claims

1. **(currently amended)** A stabilized diesel fuel composition comprising

- a) a diesel fuel with a cetane number less than or equal to 50,
- b) ~~an effective amount of~~ at least one compound selected from the group consisting of ~~the~~ organic nitrate cetane improvers and
- c)
  - i) ~~an effective stabilizing amount of~~ at least one compound selected from the group consisting of ~~the~~ stable nitroxide compounds or
  - ii) ~~an effective synergistic stabilizing amount of~~ at least one compound selected from the group consisting of ~~the~~ stable nitroxide compounds and at least one antioxidant compound selected from the group consisting of ~~the~~ aromatic amine antioxidants and ~~the~~ hindered phenolic antioxidants,

where component c) is present from about 0.05 ppm to about 10,000 ppm, by weight, based on the weight of the entire formulation.

2. **(canceled)**

3. **(canceled)**

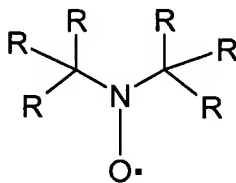
4. **(currently amended)** A composition according to claim 1 in which the cetane improvers are selected from the group consisting of ~~the~~ hydrocarbyl nitrates where hydrocarbyl is a straight or branched chain alkyl of 1 to 24 carbon atoms, straight or branched chain alkyl of 2 to 24 carbon atoms interrupted by one to three oxygen atoms, straight or branched chain alkenyl of 3 to 24 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or C<sub>1</sub>-C<sub>4</sub>alkyl-substituted cycloalkyl of 5 to 12 carbon atoms.

5. **(original)** A composition according to claim 4 in which hydrocarbyl is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, butyl, amyl, hexyl, heptyl, octyl, isooctyl, 2-ethylhexyl, nonyl, decyl, allyl, cyclopentyl, cyclohexyl, methylcyclohexyl, cyclododecyl, 2-ethoxyethyl and 2-(2-ethoxyethoxy) ethyl.

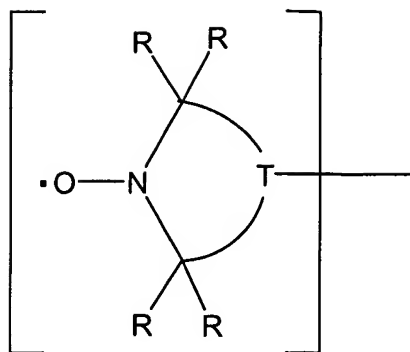
6. **(original)** A composition according to claim 4 in which the hydrocarbyl nitrate is 2-ethylhexyl nitrate.

7. **(original)** A composition according to claim 1 where the stable nitroxide compounds are hindered amine nitroxide compounds that comprise a nitroxyl moiety flanked by two tertiary carbon atoms where the flanking tertiary carbon atoms may be further connected by bridging groups to form five- or six-membered cyclic structures.

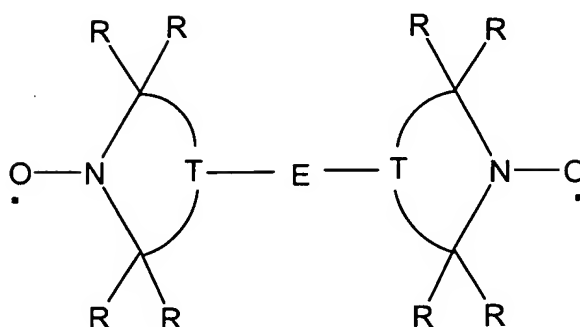
8. **(original)** A composition according to claim 7 where the stable nitroxide compounds are of the formula



or are compounds that contain one or more groups of the formula



or are of the formula



where each R is independently methyl or ethyl, T is a group required to complete a 5- or 6-membered ring and E is a linking group.

**9. (currently amended)** A composition according to claim 1 where the stable nitroxide compounds are selected from the group consisting of bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) sebacate, 4-hydroxy-1-oxy-2,2,6,6-tetramethylpiperidine, 4-ethoxy-1-oxy-2,2,6,6-tetramethylpiperidine, 4-propoxy-1-oxy-2,2,6,6-tetramethylpiperidine, 4-acetamido-1-oxy-2,2,6,6-tetramethylpiperidine, 1-oxy-2,2,6,6-tetramethylpiperidine, 1-oxy-2,2,6,6-tetramethylpiperidin-4-one, 1-oxy-2,2,6,6-tetramethylpiperidin-4-yl acetate, 1-oxy-2,2,6,6-tetramethylpiperidin-4-yl 2-ethylhexanoate, 1-oxy-2,2,6,6-tetramethylpiperidin-4-yl stearate, 1-oxy-2,2,6,6-tetramethylpiperidin-4-yl benzoate, 1-oxy-2,2,6,6-tetramethylpiperidin-4-yl 4-t-butyl-benzoate, bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) succinate, bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) adipate, bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) n-butylmalonate, bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) phthalate, bis(1-oxy-2,2,6,6-

tetramethylpiperidin-4-yl) isophthalate, bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) terephthalate, bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) hexahydroterephthalate, N,N'-bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl)adipamide, N-(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl)caprolactam, N-(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl)dodecylsuccinimide, 2,4,6-tris-[N-butyl-N-(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl)]-s-triazine, 4,4'-ethylenebis(1-oxy-2,2,6,6-tetramethylpiperazin-3-one), 2-oxy-1,1,3,3-tetramethyl-2-isobenzazole, 1-oxy-2,2,5,5-tetramethylpyrrolidine, N,N-bis-(1,1,3,3-tetramethylbutyl)nitroxide, N,N-diphenylnitroxyl, a mixture of mono- and dialkylated tert-butyl/tert-octyl-N,N-diphenylnitroxyls and a mixture of mono- and dialkylated nonyl-N,N-diphenylnitroxyls.

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**10. (original)** A composition according to claim 1 where the stable nitroxide compounds are selected from the group consisting of bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) sebacate, 4-hydroxy-1-oxy-2,2,6,6-tetramethylpiperidine, 4-ethoxy-1-oxy-2,2,6,6-tetramethylpiperidine, 4-propoxy-1-oxy-2,2,6,6-tetramethylpiperidine, 4-acetamido-1-oxy-2,2,6,6-tetramethylpiperidine, 1-oxy-2,2,6,6-tetramethylpiperidine and 1-oxy-2,2,6,6-tetramethylpiperidin-4-one.

**11. (original)** A composition according to claim 1 where the stable nitroxide is bis(1-oxy-2,2,6,6-tetramethylpiperidin-4-yl) sebacate or 4-hydroxy-1-oxy-2,2,6,6-tetramethylpiperidine.

**12. (canceled)**

**13. (original)** A composition according to claim 1 in which component c) is present from about 0.1 ppm to about 1000 ppm, by weight, based on the weight of the entire formulation.

**14. (original)** A composition according to claim 1 in which component c) is present from about 0.2 ppm to about 100 ppm, by weight, based on the weight of the entire formulation.

**15. (original)** A composition according to claim 1 in which component c) is present from about 0.5 ppm to about 25 ppm, by weight, based on the weight of the entire formulation.

**16. (currently amended)** A composition according to claim 1 comprising ~~an effective synergistic stabilizing amount of~~ at least one compound selected from the group consisting of the stable nitroxide compounds and at least one antioxidant compound selected from the group consisting of the aromatic amine antioxidants and the hindered phenolic antioxidants.

**17. (original)** A composition according to claim 16 in which the ratio of the stable nitroxide compounds to the antioxidant compounds is from about 1:99 to about 95:5 parts by weight.

**18. (original)** A composition according to claim 16 in which the ratio of the stable nitroxide compounds to the antioxidant compounds is from about 1:10 to about 10:1 parts by weight.

**19. (original)** A composition according to claim 16 in which the ratio of the stable nitroxide compounds to the antioxidant compounds is from about 1:5 to about 5:1 parts by weight.

**20. (original)** A composition according to claim 16 in which the ratio of the stable nitroxide compounds to the antioxidant compounds is from about 1:3 to about 3:1 parts by weight.

**21. (currently amended)** A process for improving the filterability and improving the cetane number of a diesel fuel, which process comprises

adding to a diesel fuel with a cetane number less than or equal to 50,

b) ~~an effective amount of~~ at least one compound selected from the group consisting of ~~the~~ organic nitrate cetane improvers and

c) i) ~~an effective stabilizing amount of~~ at least one compound selected from the group consisting of ~~the~~ stable nitroxide compounds or

ii) ~~an effective synergistic stabilizing amount of~~ at least one compound selected from the group consisting of ~~the~~ stable nitroxide compounds and at least one antioxidant compound selected from the group consisting of ~~the~~ aromatic amine antioxidants and ~~the~~ hindered phenolic antioxidants,

where component c) is added from about 0.05 ppm to about 10,000 ppm, by weight, based on the weight of the entire formulation.